						Sheet _	<u>l</u> of _	1 sheets	
U.S. Department of Commerce, Patent and Trademark Office						Docket No.		Serial No.	
AVALANCHE I METHOD THEI		DIODE FOR PHO	OPTONICS 05D1		10/721,915				
LIST OF RELE	VANT	ART CITED BY A	Applicant						
(Use several shee	ets if ne	cessary)	VICKERS et al.						
	F58 2 3 2004 R						Group		
i	150 8 111						•		
U.S. Patent Docu	ıments		No.	& TRADEMEN					
*Examiner Iaitial		Document Number	Issue Date	Name	Class	Subclass	Filing Date Appropriate		
SO.G.	AA	5,539,221	7/23/1996	Tsuji et al.	257	186			
· 5.BG.	AB	5,543,629	6/8/1996 8/6/16	Nakamura et al.	257	21	7	/	
S.G.6.	AC	5,912,478	6/15/1999	Barrou et al.	257	185			
	AD						1		
	AE						-		
	AF							· · · · · · · · · · · · · · · · · · ·	
	AG								
	AH								
	ÁΙ	-							
\	AJ								
1	AK								
Foreign Patent	Docum	ents			Trai	nslation	•		
		Document Number	Date	Country	Class	Subclass	Yes	No	
S.B.G.	AL	EP 0451931	10/16/1991	ЕР	H01L	31/107	\times		
<i>5.05.</i>	AM	EP 1134812	09/19/2001	EP	H01L	31/0352	\times		
S.B.G.	AN	EP 0609884	08/10/1994	EP	H01L	31/107	\sim		
5 <i>B</i> .G.	AO	EP 0549292	06/30/1993	EP	H01L	31/107	\times		
5.06	AP	EP 0082787	06/29/1983	EP	H01L	31/10		X	
OTHER ART (Includii	ng Author, Title, Da	ate, Pertinent Pa	ges, Etc.)					
1	AQ		···-						
	AR								
	AS		1						
Examiner	Lo !	D. Dy	Date Consider	ed 4-22.0	24				
*EXAMINER:	Initial if	f reference consider	ed, whether or n	ot citation is in conformance	 -	EP 609; Draw line	through cita	tion if not in	

conformance and not considered. Include copy of this form with your communication to applicant.

			. `			Sheet	<u>l</u> of _	1 sheets				
U.S. Departn	nent of	Commerce, Pat	Docket No.		Serial No	0.10/7219						
AVALANCHE PHOTODIODE FOR PHOTON COUNTING APPLICATIONS AND METHOD THEREOF						OPTONICS 05DI		Div. of 10/294,434				
LIST OF RELEVANT ART CITED BY APPLICANT						Applicant: VICKERS, James						
(Use several sheets if necessary)						Filing Date Group						
U.S. Patent Doc	uments											
*Examiner Initial		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate					
SBG	AA	6,342,701	01/29/02	Kash	250	458.1	07/08/99					
506	AB	6,218,657	04/17/01	Bethune et al.	250	214	10/15/98					
Foreign Patent Documents Translation												
		Document Number	Date	Country	Class	Subclass	Yes	No				
SBG.	ΛС	JP-2001-237453	08/2001	Japan			\leq					
OTHER ART	(Includ	ing Author, Title, E					· ·					
SBG	AD	McIntyre, R. J., Multiplication Noise in Uniform Avalanche Diodes, IEEE Transaction on Electron Devices, ED 13, 164-168 (1966);										
S.O.G.	AE	McIntyre R. J., A New Look at Impact ionization – Part I: A Theory of Gain, Noise, Breakdown Probability, and Frequency Response, IEEE Transaction on Electron Devices, 46, 1623-1631 (1999)										
{QG.	ΛF	Yuan, P., Anselm, K. A., Hu, C., Nie, H., Lenox, C., Holms, A. L., Streetman, B. G., Campbell, J. C., and McIntyre, R. J., A New Look at Impact Ionization – Part II: Gain and Noise in Short Avalanche Photodiodes, IEEE Transactions on Electron Devices, 46, 1632-1639 (1999).										
5.86	ΛG	Campbell, J.C., Nie H., Lenox, C., Kinsey, g., Yuan, P., Holmes, A. L., Jr. and Streetman, B. G., High Speed Resonant-Cavity InGaAs/InAlAs Avalanche Photodiodes, IEEE Journal of High Speed Electronics and Systems 10, 327-337 (2000).										
SBG.	ΛН); Campbell, J. C., Chandrasekhar, S., Tsang, W. T., Qua, G. J., and Johnson, B. C., Multiplication Noise of Wide-Bandwidth InP/InGaAsP/InGaAs Avalanche Photodiodes, Journal of Lightwave technology 7, 473-477, (1989)										
S.B.G.	ΛI	Kinsey, G. S., Hansing, C. C., Holmes, A. L. Jr., Streetman, B. G., Campbell, J. C., and Dentai, A. G., Waveguide In _{0.53} Ga _{0.47} As-In _{0.52} Al _{0.48} As Avalanche Photodiode, IEEE Photonics Technology Letters 12, 416-418 (2000)										
S.B.G.	ĄJ	gain-Bandwidth I	Kinsey, G. S., Campbell, J. C., and Dentai, A. G., Waveguide Avalanche Photodiode Operating at 1.55m with a gain-Bandwidth Product of 320 GHz, IEEE Photonics Tachnology Letters 13, 842-844 (2001)									
5.B.G.	AK	C. Lenox, H. Nie, P. Yuan, G. Kinsey, A. L. Holmes, Jr., B.G. Streetman, J.C.Campbell, Resonant-Cavity InGaAs-InAlAs Avalanche Photodiodes with Gain-Bandwidth Product of 290 GHz, IEEE Photonics Technology Letters, Vol 11, No. 9 (1999)										
SBG.	ΛL	B. Huttner, J. Brendel, Photon-Counting Techniques for Fiber Measurements, Lightwave, (2000)										
5_B.G.	AM	P. Yuan, S. Wang, X. Sun, X.G. Zheng, A.L.Holmes, Jr., J.C.Campbell, Avalanche Photodiodes with an Impact- Ionization-Engineered Multiplication Region, IEEE Photonics Technology Letters, Vol 12, No. 10 (2000)										
5.86.	AN	K. Junsang, Y. Yamamoto, Noise-Free Avalanche Multiplication in Si Solid State Photomultipliers, Appl. Phys. Lett. 70 (21) (1997)										
SSG.	ΛО	Avalanche Photodiodes: A User's Guide, http://optoelectronics.perkinelmer.com/library/papers/tp5.asp										
SBG.	AP	1	A. Rochas, P.A. Popovic, A Geiger Mode Avalanche Photodiode,									
S.B.G.	ΛQ	S. Vasile, P. Gothoskar, D.Sdrulla, R. Farrell, Photon Detection with High Gain Avalanche Photodiode Arrays, IEEE Trans. Nucl. Sci. 45, 720 (1998)										
SB.6.	AR	T. Nesheim, Sing Project at the De	T. Nesheim, Single photon detection using avalanche photodiode, a master thesis done in Quantum Cryptography <u>Project</u> at the <u>Department of Physical Electronics</u> , http://www.vadl.com/qcr/torbjoern/ Chapter 3.									
Examiner /)	7 /	Date Consid	lered 4 22	^ <i>U</i>							

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.